



Freedom Scientific Benelux BV

Freevoxtouch User Manual



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0.1 Introduction

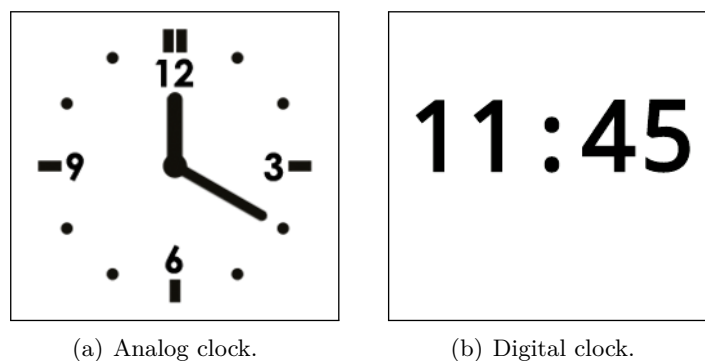


Figure 1: Clock view.

Freevoxtouch is a powerful device designed for low vision and blind people.

Freevoxtouch is more than a watch. Running an Android based operating system it provides a lot of useful features such as a talking and low vision clock, music player, voice memo recording, and

much more. Users can get information through a high contrast display, small or big icons and the **Nuance** speech synthesizer.

Freevoxtouch has just one button and uses a curved touch screen to run most of the commands. The touchscreen interface is designed for visually impaired people allowing them to give commands in an easy and intuitive way: after a bit of practice you will be a great touchscreen user and will enjoy all the benefits of a touchscreen watchlike device.

0.2 Getting Started

0.2.1 Description

Freevoxtouch is very easy to use.

The freevoxtouch has just one button, the power button. You will find it on the right side of the freevoxtouch. When the freevoxtouch is in upright position the power button is in the top right corner.

Opposite to the power button is the audio plug. This plug is used for multiple functions:

- Headphones.
- Battery charging.
- Computer connection.

The touchscreen is placed on top of the freevoxtouch. Touchscreen can act as a single key or as a four keys panel depending on the freevoxtouch settings.

0.2.2 Battery

The freevoxtouch battery can be charged with the power cable connected to the audio plug or using usb cable to connect it to a computer.

You can listen to battery state in the home screen (clock) with a diagonal slide of your finger (from bottom-left to top-right).

To save energy the freevoxtouch will go in stand by mode after a few seconds of inactivity. You have to press the power button to wake it up.

WARNING: When the battery is charging Freevoxtouch doesn't speak or play sounds with the only exceptions of time and date, alarms, the charge state and the export related items.

0.2.3 Power on and off

To start using freevoxtouch you can turn it on with a long press of the power button (on the right side of the freevoxtouch). If the freevoxtouch is charged you will get a sound and after a few seconds you will be ready to use freevoxtouch.

0.2.4 Software update or new language update

Over time updates for the software or additional language updates will be released by Freedom Scientific Benelux BV. To update the freevoxtouch, connect the watch to the PC and run the export procedure of mass storage. Once freevoxtouch is connected, copy the update file to the "updates" folder inside the watch. Then, without disconnecting the USB cable, power down the watch by long pressing the side button. Freevoxtouch will automatically restart and begin the update process; the procedure takes up to 5 minutes, after which freevoxtouch will restart using the new software version. The update process is not speech enabled.

If the update process starts without the USB cable inserted it will immediately stop and wait for

the USB cable to be connected. Please do so and then touch the screen anywhere; the update will then proceed as normal. If an issue is found with the update, freevoxtouch does not restart by itself but stops in the recovery mode menu, with a description of the error on the screen. In this case, no changes have yet been made to freevoxtouch. To restart the device, please keep the side button pressed for more than 12 seconds to force a power off. Then start freevoxtouch normally.

Freevoxtouch is also provided with a dedicated tool, **Freevoxtouch Manager**, to manage **software updates** and **music upload**. To install the update using the Freevoxtouch Manager, start it, press the mass storage export tap on the freevoxtouch, and select the update file you want to upload to freevoxtouch. After these operations disable the mass storage export, freevoxtouch will shutdown automatically and install the update at the next boot.

It should be noted that, with the usb cable connected, freevoxtouch can **ONLY** be used for update installation and music upload, in addition to the normal charge. In fact, with the usb cable connected to the freevoxtouch will only be available the mass storage export page.

If the tool is started with freevoxtouch already connected, the tool shows a warning that prompts you to disconnect and reconnect it.

0.2.5 Entering commands

Using power button

The power button changes its behavior in different situations:

- A long press of power button always turns the freevoxtouch on and off.
- A short press of the power button in the home screen (the clock screen) enables/disables stand by mode.
- A short press of the power button in stand by mode wake the freevoxtouch up.
- A short press in all other screens (menu and applications) acts as a back button going to the previous screen or menu.

Touch screen

The touch screen has two working modes: normal icons or big icons.

In normal icons mode the screen is divided in 4 squares and each of them has one icon: two on top (top left and top right) and two on bottom (bottom left and bottom right). Starting from screen corners it is easy to identify the area where you have to tap.

Using big icon mode the full screen acts a single key so the position where you tap does not matter.

In both icon modes the touch screen supports the following commands:

- A single tap speaks icon/item name (in normal icon mode you have 4 places and when tapping them you hear 4 different menu items).
- A fast double tap on an item opens the associated sub-menu (album selection as example) or run its action (stop as example).

- A long press jumps to home screen (the clock).

The touch screen also supports some gestures:

- Vertical sliding (bottom to top or top to bottom): increase or decrease volume.
- Horizontal sliding (left to right or right to left), in big button mode: change current icon or menu item.
- Diagonal sliding in home screen (from bottom left to top right): announce battery level.

0.3 Home screen

Home screen is the main freevoxtouch screen. It shows an analog or digital clock and current date depending on the freevoxtouch settings.

Home screen always acts as a single icon screen (it doesn't matter where you tap).

In home screen the following commands are available:

- Power button (short press): enable/disable stand by mode.
- A single tap on the screen: announce current time.
- A long press on the screen: speak current date.
- A fast double tap: open main menu or last used application.
- A vertical slide (bottom-top): increase or decrease volume.
- An horizontal slide (left-right): changes screen theme, i.e black on white, white on black, yellow on black (the screen off option is not available as shortcut).

When you open the menu and choose an application you can always come back to the home screen with a long press. Then you can tap twice to come back to your previous position (menu or application).

0.4 Menus

With a double tap on home screen you enter the freevoxtouch menu.

Menu behavior depends on freevoxtouch settings but both normal icons mode and big icons mode, each menu has four items that can open a sub-menu, run a command or do nothing.

0.4.1 Normal icons mode

When normal icons are set the screen is divided in 4 squares and each of them has an icon. So you have an icon for each screen corner. You can touch the icon area to hear its name and double tap on it to start the associated action.

In normal icons mode the following commands are available:

- Single tap an icon: listen to icon name (no action).
- Double tap an icon: open associated sub-menu or perform corresponding action.
- Long press on the screen: jump to home screen (clock).
 - A double tap on the home screen takes you back again to the current menu.
- Click the power button: go back to the previous menu. If in stand by mode, wake up the freevoxtouch.
- Vertical slide: increase, moving bottom to top, or decrease, moving top to bottom, the volume.

0.4.2 Big icons

Using big icons the screen has just one icon. This is very useful for low vision users who can take advantage of big icons for recognition. Using this mode each menu or sub-menu has the same items as in normal icons mode but you see them one at a time and you use horizontal sliding to change the current item.

With big icons enabled the full screen acts as a single key and the following commands are available:

- Single tap the screen: listen current icon name (no action).
- Double tap the screen: open associated sub-menu or perform corresponding action.
- Long press on the screen: jump to home screen (clock).
 - A double tap on the home screen takes you back again to the current selected menu.
- Click the power button: go back to previous menu.
 - The power button is also used to wake up the freevoxtouch if it goes in stand by mode.
- Vertical slide: increase (bottom to top) or decrease (top to bottom) volume.
- Horizontal slide: go to next (left to right) or previous (right to left) menu item.

In big icon mode each menu or sub menu has the same items as in normal icons model but you see them one a time and you use horizontal sliding to change the current item.

0.5 Main menu

As shown in Figure 2, the main menu contains the following options:



Figure 2: Menu.

- Settings: configure freevoxtouch aspect, set time and alarms, set voice parameters and more.
- Music player: listen to your music.
- Voice memo: record and listen voice memo.
- Applications: other useful applications.

0.5.1 Settings

Here you can configure a lot of parameters to get the best experience using freevoxtouch.

Voice settings



Figure 3: Voice Settings.

This menu, shown in Figure 3, allows you to change the voice parameters.

- Language: change menu and synthesizer language
- Male voice: set male voice
- Female voice: set female voice
- Voice rate: change speech rate (low, normal, fast), see Figure 4

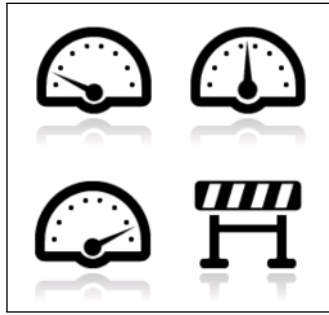


Figure 4: Voice rate.

Speech volume

This menu allows you to change the default speech volume. As depicted in Figure 5 you can choose between whisper volume, normal volume, or loud volume.

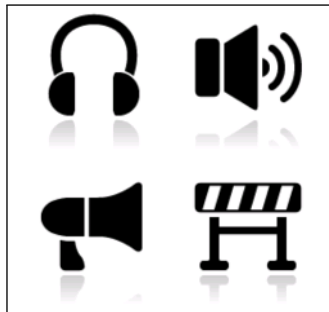


Figure 5: Voice volume.

Alarms

Freevoxtouch allows you to configure alarms. Alarms are usefull to get up in the morning and to remember important task during the day. You can configure a single or repeated alarms.

Alarms menu offers the following actions (see Figure 6):

- New alarm: add a new alarm.
- Enable/disable alarms: this icon changes it's action to enable or disable playing alarms. If alarms are enabled it will disable them and if alarms are disabled they will be enabled.

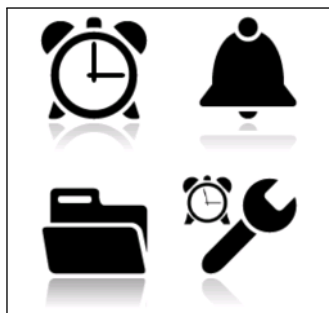


Figure 6: Alarms screen.

- Alarms folder: allow to navigate active alarms and delete them.
- Alarm settings: change alarm sound and volume.

Adding a new alarm

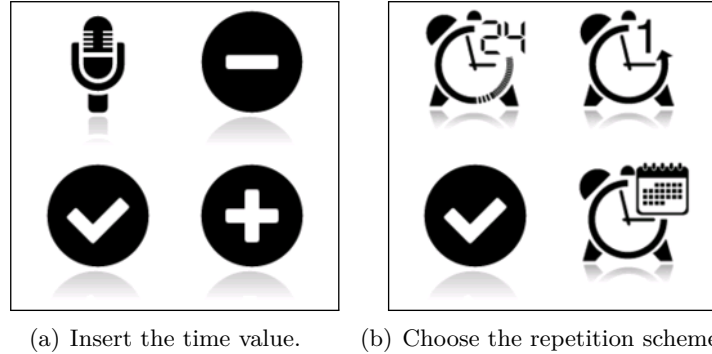


Figure 7: Add a new alarm.

For faster time input freevoxtouch makes you enter minute digits separately (Figure 7(a)).

So adding a new alarm requires the following actions:

- Select hour (starting from current hour): increases or decreases the value using the associated icons and press “set hour” when finished.
- Set minute tens (starting from current value): choose minute decies (0, 10, 20,...): increase or decrease current value using the associated icons and press “set tens” when finished.
- Set minute unit (starting from current unit value): increase or decrease value using the associated icons and press “set minutes” when finished.
- Set repetition schema: choose alarm repetition scheme.
 - Execute once: play an alarm only once.
 - Working days only: play an alarm on working days (from Monday to Friday) at the selected time.
 - All days: play an alarm every day at the selected time.

When adding a new alarm remember to verify that alarms are enabled.

General Settings

This section controls general settings like time and date, analog or digital clock and color schemes (for low vision user).

As shown if Figure 8, this menu provides the following options:

- freevoxtouch interface settings: provides two rows; in the top row you can choose between normal and big icons mode and in the bottom row you can switch between digital and analogue clock.

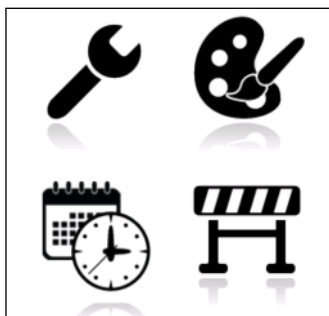


Figure 8: General settings.

- Screen settings: here you can select a screen theme (black on white, white on black, yellow on black or screen off).
 - Screen off mode is useful for blind users because it makes the battery performance higher.
- Time and date settings: configure time, date and time and select if you want to show current date below the clock in the home screen (only in digital clock mode).

Setting time and date

For a faster time input freevoxtouch makes you enter minute digits separately.

So setting current time requires the following actions:

- Select hour: increase or decrease value using the associated icons and press “set hour” when finished.
- Set minute tens: choose minute decies (0, 10, 20,...): increase or decrease current value using the associated icons and press “set tens” when finished.
- Set minute unit: increases or decreases value using the associated icons and press “set minute” when finished.

So setting current date requires the following actions:

- Select year: increase or decrease value using the associated icons and press “set year” when finished.
- Set month: increase or decrease value using the associated icons and press “set month” when finished.
- Set day: increase or decrease value using the associated icons and press “set day” when finished.

Congratulations: you have now finished configuring your freevoxtouch.

0.5.2 Music Player

Music player allows you to listen to your music using freeoxtouch either by connecting headphones or using the freevoxtouch speaker.



Figure 9: Music player options.

Copying music to the freevoxtouch

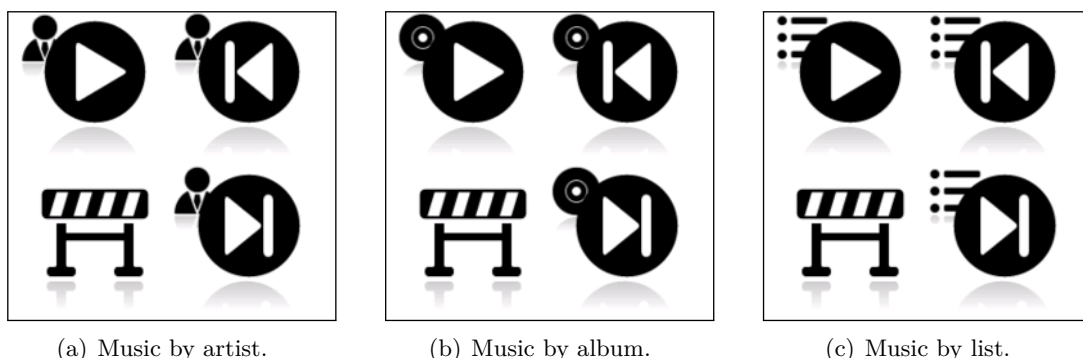
To put your music into the freevoxtouch you have to use a computer running the Microsoft Windows operating system. Freevoxtouch is provided with the **Freevoxtouch Manager** tool to manage it's music. This program allows you to select music files and copy them into the freevoxtouch. The tool is very easy to use, start it, connect your freevoxtouch, press the mass storage export tap, and select a folder containing the mp3 files you want to upload to freevoxtouch. After these operations you can select the files to upload and delete from the watch.

If the tool is started with freevoxtouch already connected, the tool shows a warning that prompts you to disconnect and reconnect it.

WARNING: Freedom Scientific Benelux BV assumes no responsibility for the content, origin and ownership of the mp3 files that are used with the freevoxtouch and the manager tool.

WARNING: Freevoxtouch Manager manages only mp3 audio file and the watch can reproduce only ogg audio files.

WARNING: Freevoxtouch memory for all user data is 4 GB so you have to consider this limit.



(a) Music by artist.

(b) Music by album.

(c) Music by list.

Figure 10: Playlist mode.

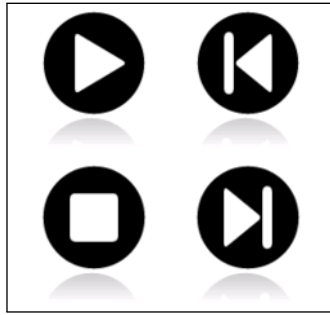


Figure 11: Music player.

Using Music player

As shown in Figure 9, before starting the music player, you can select from four different playing modes:

- By artist: opens artist list and play all songs of the selected artist.
- By album: opens album list and play the selected album.
- By list: lists all the songs available on Freevoxtouch.
- Random: similar to list mode except that this mode shuffles the list and plays it indefinitely.

When you select playing mode you have artist (Figure 10(a)), album (Figure 10(b)) or list (Figure 10(c)) selection menu which allows you to select the desired item using next and previous buttons and to confirm with a double tap.

After that you have build your playlist and you can enter in playing mode.

As shown in Figure 11, the music player has four controls, these are:

- Pause/resume: pause or resume playing current song.
- Stop: stop playing current song (playing it again restarts the song from the beginning).
- Next: go to next song in list.
- Previous: go to previous song in list.

To change current list or playing mode you can use the back button, the same button you can use to exit the player pushing it several times.

0.5.3 Memo recorder

Voice memo recorder allows the user to save spoken information. You can record memos and organize them in four different folders.

The main menu for voice memos is shown in Figure 12, it has the following icons:

- Record new memo: double tap to record a new memo, speak and double tap it again to stop recording.



Figure 12: Voice memo options.



Figure 13: Voice memo folder selection.

- Listen memo: listen to memo of the active folder.
 - Memo player as the same interface as the music player when in playing mode, except for the fact that it allows you to delete the current memo (please note that it is possible to delete music from the freevoxtouch using the Freevoxtouch Manager).
 - Each memo is identified by a progressive number and creation date and time.
- Memo folder: select current active folder. There are four different folders available (see Figure 13). The active folder is used both for memo recording and listening.

0.5.4 Applications

As shown in Figure 14, this menu contains two useful utilities: a stopwatch and a countdown timer.



Figure 14: Applications.

Stopwatch

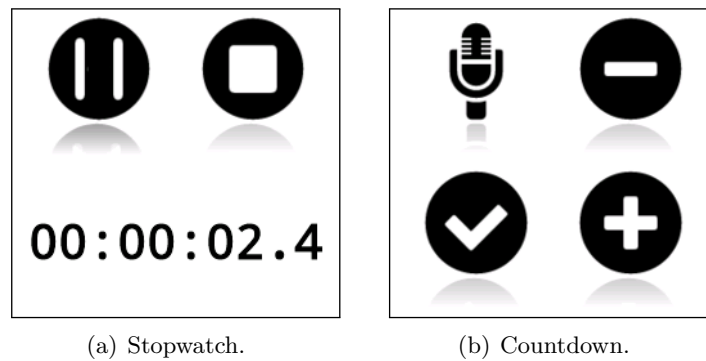


Figure 15: Stopwatch and countdown applications.

When you enter the stopwatch you find two icons (see Figure 15(a)): start/stop and reset. The stopwatch speaks the current value when you stop it and you can restart from the current value or reset it. When the stopwatch is running the reset icon becomes a listen icon that let you listen the current value. You can listen the current value also with a double tap on the area below.

Countdown

The countdown timer allows you to set an alarm after a specific amount of time. The difference between alarms settings and countdown timer is that with alarms you specify the time when to play a sound, instead with a timer you set the amount of time from now (play an alarm after 30 seconds as example).

For a faster time input freevoxtouch makes you enter minute digits separately.

So starting a timer require the following actions, see Figure 15(b):

- Set tens: choose hour decines (0, 10, 20,...), increase or decrease current value using the associated icons and press “set tens” when finished.
- Set minutes (starting from current unit value): increase or decrease value using the associated icons and press “set minutes” when finished.
- The same is applicable for minutes and seconds.

As shown in Figure 16, at every moment you can hear the current elapsed time with a double tap on the top right icon. You can listen the current elapsed time also with a double tap on the area below.

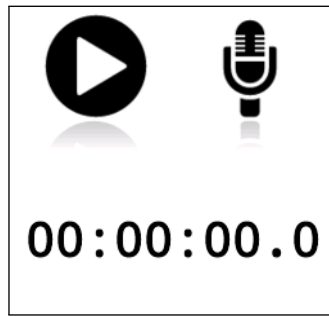


Figure 16: Countdown.

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- EMC (Electric Compatibility Requirements).
- Essential Safety Requirements Of Information Technology Equipment.

The Product is tested to and conforms with the essential radio test suites included in the following standards:

Standard	Issue Date
EN 55022	2006-09
EN 55022/A1	2007-10
EN 55024	1998-09

Standard	Issue Date
EN 55024/A1	2001-10
EN 55024/A2	2003-01
EN 55024/IS1	2007-08
EN 60950	2006
EN 60950-1/ A11	2009

The product Specified Above complies With the Requirements of the Following Directives and carries the CE Mark accordingly:

- EMC directive 2004/108/EC.
- Low Voltage Directive 2006/95.

The product compliance with the foregoing Standards was tested at the conditions stated on the official test reports. Please also refer to the Statement of Conformity attached to the product. Any modification of the device will alter these conditions and may cause interferences with radio and TV sets as well as other electronic devices. Moreover, it may impair use of the product by the end-user at the afore mentioned conditions.

0.8 Waste Disposal Procedure

WASTE DISPOSAL PROCEDURE

to Directive 96/2002/EC - WEEE (Waste of Electric and Electronic Equipment)



The symbol in the back of the product indicates that electric and electronic equipment are subject to separated waste disposal. At the end of the product life time, do not dispose of it with urban solid waste but rather deliver it to a specific green waste collection centre in your area. Alternatively, your dealer will dispose of your old product when you purchase a new one which has the same functions. Separate disposal/collection procedures for electric and electronic waste are established in the framework of the EC environmental policy aimed at maintaining, protecting and improving the quality of our environment and preventing possible dangerous effects on human health as well as misuse of the products or parts thereof.

WARNING: Lack of compliance with local rules and regulations on disposal of electric and electronic equipment may be punished by application of fees and pecuniary penalties.

THIS PRODUCT IS COMPLIANT WITH

Directive 95/2002/EC (RoHS)

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